Approved For Release 2002/08/06 : CIA-RDF68B00724R000209200010-7

IDEA-0504-69 Copy /o of /o

13 May 1969

MEMORANDUM FOR: Deputy for Materiel, OSA

SUBJECT:

Possible Interface Problem Area Affecting

IRIS II Performance

- 1. The undersigned was notified by ______ Itek, 25X1A via telecon on 12 May 1969 of a problem, which if not corrected, will affect the performance of the IRIS II.
- 2. The problem became evident after an analysis was made of Test Mission GT 69-192 on 2 May 1969 utilizing IRIS II SN-002. Findings from the analysis of this mission also afforded explanations to hereto unexplainable anomalies occurring in flight with IRIS II which could not be reproduced at postflight.
- 3. During GT 69-192, the "A" light came on intermittently indicating malfunction, yet when SN-002 was thoroughly postflighted, the configuration operated flawlessly. Some items were noted, however:
 - A. Some misframing took place.
 - B. Imagery was soft on some of the frames.
 - C. The makeup bottle, which contains $\frac{1}{2}$ hour of nitrogen to supply gas to the air bars of the IRIS II, was empty.
- 4. It is suspected the basic problem is a fluctuation of primary and secondary power which supplies AC to the 28 volt power supply which in turn supplies the 6 volts to the regulator in the IRIS II which controls the encoder pulses. The Primary AC is the only power available to the heater blower and air compressor. It is my understanding when the engine is throttled back, the 28 volt input to the regulator is reduced considerably; conversely, the only time 28 volts $\pm \frac{1}{2}$ volt is supplied is when aircraft is in a cruise-climb condition. The effects of fluctuations in 28 volt power source were more apparent in SN-002 for its regulator was set at 5.4 volts. The card establishing voltage on SN-002 regulator has been changed to 6.12 volts, but this can be dangerous also in the event of power surges.

| | | SECRET | |
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| 12 | 5. ITEK has May 69) asking | sent a TWX to LA for data pertain | C (See ing to power | dated input. | 25X1A |
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25X1Å

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